Warmup 10/ (#of fractal art pictures on the wall) Suppose UPS charges a \$3.50 flat fee to ship a package. They also charge 20 cents per ounce. 1. Write an equation in slope-intercept form to represent the total cost of shipping x y = 0.20x + 3.50 2. How much would it cost to ship a 9-ounce package? \$5.30 3. If you spent \$8.10 to ship a package, how many ounces was it?

TEST FRIDAY Converting between Tables/Equations/Graphs/Situations Linear story problems Slope & y-intercept What do inputs & outputs represent Should you connect the points? Linear vs. Nonlinear Proportional (today)

Shipping packages...

At a different company, a 3 ounce package cost \$2.50 to ship and a 5 ounce package cost \$2.70 to ship.

How much does it cost per ounce?

Can you figure out what the flat fee was?

\$2.20

Question 31

From Store A, the total cost to ship a 5-ounce package is \$4.25, and the total cost to ship a 6-ounce package is \$4.60. Store B charges a flat fee of \$1.50, plus \$0.50 per ounce to ship a package.

Which statement is true?

A) The flat fee for shipping is \$0.15 more at Store B.

B) The flat fee for shipping is \$1.15 more at Store B.

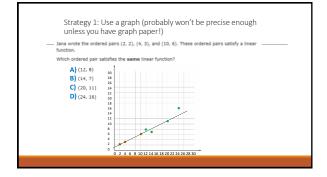
C) The flat fee for shipping is \$2.00 more at Store A.

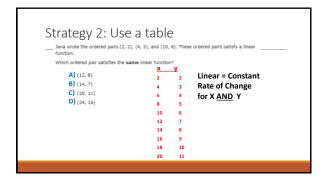
Jana wrote the ordered pairs (2, 2), (4, 3), and (10, 6). These ordered pairs satisfy a linear function.

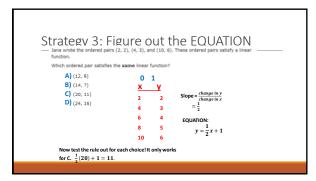
Which ordered pair satisfies the same linear function?

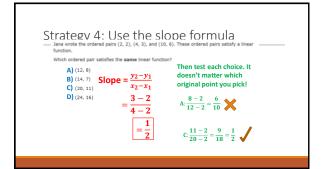
A) (12, 8)
B) (14, 7)
C) (20, 11)
D) (24, 16)

Think outside the box. There are MANY ways you can solve this problem!!!

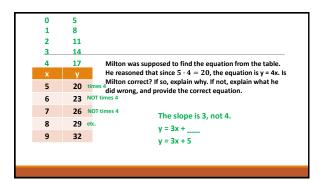


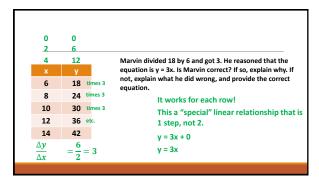




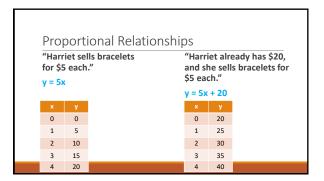


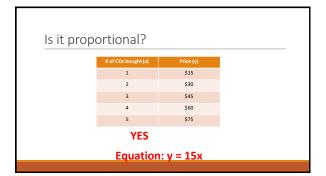


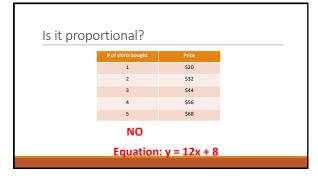


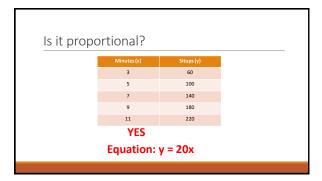


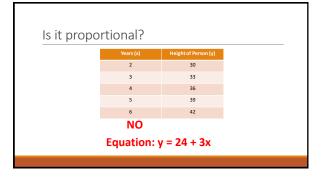
A linear relationship that has no y-intercept is called a proportional relationship.
This is because the x and y-values will always have the same ratio.

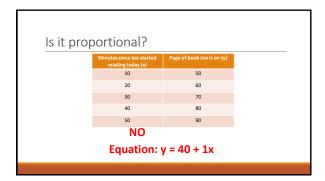


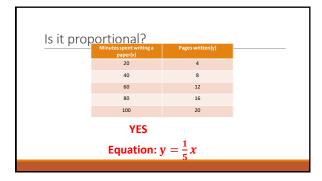












Homework: Linear Story Problems
Worksheet